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Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

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Keywords

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Keywords

Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

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Keywords

Molecular beam epitaxy, scanning tunneling microscopy

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Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers

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Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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Haptics, microassembly, dynamically stable mobile robots

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Keywords

power systems, optimization, control, energy networks, decomposition

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Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

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Signal processing, biomedical, wavelets, frames, multiresolution, communications

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Keywords
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Keywords
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.
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Keywords
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Computer architecture, compilers, operating systems, parallel processing

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Mukherjee, Tamal  Professor – ECE

Keywords
Analog/RF/MEMS/biofluidic microsystem design

Mutlu, Onur  Adjunct Professor – ECE

Keywords
Computer architecture, hardware/software interaction, operating systems, fault tolerance

Nace, Bill  Associate Teaching Professor – ECE
Keywords

Digital Design, Embedded Systems, Networks

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Keywords

fault tolerance, distributed systems, embedded systems, mobile systems

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Keywords

computational sensors, computer graphics, computer vision, image processing, optics

**Negi, Rohit** Professor – ECE; Affiliated Faculty – DSSC (412)-268-6264

Keywords

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

**Nguyen, Kimmy** Event and Project Coordinator – ECE (412) 268-7138

**Noh, Hae Young** Assistant Professor – CEE; Courtesy Professor – ECE

**O’Hallaron, David** Professor – CS, ECE; Director – Intel Research Pittsburgh (412)-268-8199

Keywords

Scientific computing, parallel computing, computational database systems, and virtualization

**Oliver, Megan** Academic Services Coordinator – ECE 412-268-5621

**Ozdoganlar, Ozdoganlar, O. Burak** Affiliated Faculty – DSSC; Associate Professor – MechE (412)-268-9890

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Keywords

Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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Keywords

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

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Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

Perrig, Adrian  Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab  
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Keywords

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

**Phelps, Shelley** Finance and Business  
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Keywords

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

**Pileggi, Larry** Tanoto Professor – ECE  
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Keywords

Design, implementation and modeling of electronic integrated systems

**Pileggi, Leah** Professional  
Writer – ECE; Professional Assistant – ECE  
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Keywords

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

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Keywords

Embedded and real-time systems
Ramakrishnan, Bhiksha Raj  Courtesy Professor – ECE; Associate Professor – LTI
Reddy, Raj  Courtesy Professor – ECE; Mozah Bint Nasser University Professor – CS
Reyes, Brittany  Academic Services and Student Organizations Coordinator – ECE
Ricketts, David  Adjunct Professor – ECE

Keywords
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

Risley, Mason  Process Engineer – Nanofab
Rohrer, Ronald A.  Professor Emeritus – ECE

Keywords
Electronic circuits, systems design automation

Rosvanis, James  Nanofab Technician – Nanofab
Rowe, Anthony  Associate Professor – ECE

Keywords
Embedded systems, distributed systems, sensor networks

Rutenbar, Rob A.  Adjunct Professor – ECE

Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

Salvador, Paul A.  Associate Professor – MSE; Affiliated Faculty – DSSC
Sankaranarayanan, Aswin  Assistant Professor – ECE
Santhanam, Suresh  Principal Process Engineer – ECE
Satyanarayanan, Mahadev  Carnegie Professor – CS; Courtesy Professor – ECE
**Savvides, Marios**
Research Professor – ECE; Director – CyLab
Biometrics Center

*Keywords*

Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

**Schlesinger, T.E. (Ed)**
Adjunct Professor – ECE

*Keywords*

Semiconductor devices, information storage, optoelectronic systems

**Schneider, Jeff**
Research Professor – RI; Courtesy Professor – ECE

*Keywords*

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

**Seshan, Srinivasan**
Associate Professor – CS; Courtesy Professor – ECE

*Keywords*

Network protocols, applications, distributed systems, mobile computing, wireless networks

**Shah, Nihar**
Assistant Professor – MLD, CSD; Courtesy Professor – ECE

*Keywords*

Modern superscalar processor design, instruction-level parallelism and code scheduling

**Siewiorek, Daniel**
Buhl University Professor – HCII, ECE, CSD

*Keywords*

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Keywords

Computer architecture, reliability, context aware mobile computing

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Keywords

Networked embedded control systems, sensors/actuators networks, control theory

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Keywords

Telecommunications policy and economics

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Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

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Keywords

Mobile computing, computer architecture, system design methods, wearable computers

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Keywords

Wireless communications, nanophotonics, spin wave devices

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Keywords

Computer networks, distributed systems, pervasive computing

Stern, Richard Professor – ECE, LTI, CS, BME; Lecturer – Music (412)-268-2535 rms@ece.cmu.edu

Keywords

Automatic speech recognition, auditory perception, signal processing

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Keywords

Statistically based CAD/CAM of VLSI circuits

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Keywords

Audio signal processing, music and sound recording applications

Sundar, Vignesh Post Doctoral Research Associate – DSSC vigneshs@andrew.cmu.edu
Tague, Patrick  Associate Research Professor – CyLab, INI, ECE  
Keywords  
Network security; Wireless networking  
Talukdar, Sarosh  Professor  
Emeritus – ECE  
Keywords  
Autonomous agents, distributed control, power systems, cascading failures  
Tang, Xiaoying  Adjunct Professor – ECE  
Tayur, Sridhar  Courtesy Professor – ECE; Professor – Tepper  
Thomas, Donald  Professor  
Emeritus – ECE  
Keywords  
Computer-aided design of single chip heterogeneous multiprocessing systems  
Tims, Joshua  Systems Administrator – ECE  
Tomko, Jessica  Admissions Coordinator – ECE  
Tonguz, Ozan  Professor – ECE  
Keywords  
Optical networks, wireless networks and communications systems, and high-speed networking  
Towe, Elias  Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT  
Keywords  
Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.  
Ustun, Taha Selim  Assistant Teaching Professor – ECE  
Keywords  
Optical and wireless networks, biophotonics, sensors, quantum phenomena in optical materials.
Keywords

Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

V

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**Vernon, David** Teaching Faculty – ECE

**Vidal Alvarez, Gabriel** Post Doctoral Research Associate – ECE

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**Vinayak, Rashmi** Assistant Professor – CSD; Courtesy Professor – ECE

W

**Wang, Kai** Adjunct Professor – ECE

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**Weldon, Jeffrey** Adjunct Professor – ECE

Keywords

Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

**Wen, Tianlong** Post Doctoral Research Associate – Physics, DSSC

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Keywords

Magnetic nanotechnology
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**Keywords**

Wireless communications, network science, security, social networks, cyber-physical networks

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**Keywords**

Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems

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**Keywords**

Multi-core processors, Network-on-chip, Digital VLSI

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**Keywords**

Computer networks, internet, resource management, multimedia

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**Keywords**


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Keywords
Sensor Networks, Embedded Systems

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Keywords
Micromagnetics, magnetoelectronic devices, magnetic recording

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